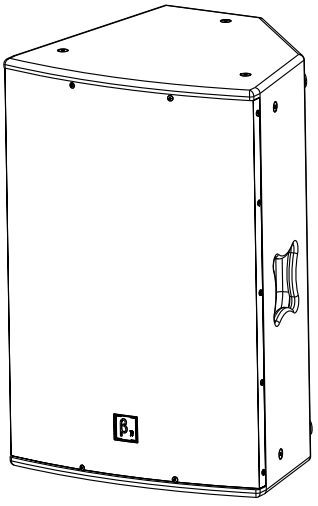
Beta Three

ΣJ212



USER MANUAL
ED-B3-MA-070604-001

Beta Three

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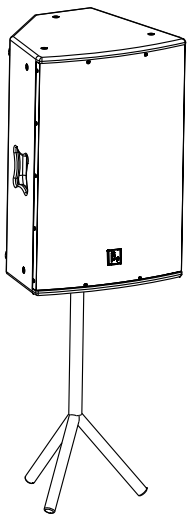


ΣJ212

INTRODUCTION

β 3 Σ J series loudspeaker is mainly used for all kinds of rock-and-roll bar, entertainment bar, club, and all kinds of dynamic performance, cellular reinforcement sound. This series includes three different types of speakers, 2 types of two-way full range speaker ,and one subwoofer speaker. .

12 inch full range and 15 inch full range speakers are pentagonal section; they are convenient to make an array. When it is used for echo on the stage , it can debase the production of wave inside ,and we adopt selected high strength MDF plate ,which has enough strength and it can absorb the heterogeneral sound of resonance .EJ series adopts standard flying configuration ,and SPK speakon socket input ,so it is convenient for fixing. .

Σ J Series products are developed and produced by combination of the latest computerized stimulation design technology, the latest loudspeaker material and manufacturing technology. All transducers adopt the optimized magnetic circuit having high magnetic energy, low distortion and excellent. LF uses nonlinear thickness long fabric paper cone with special painting cloth surround and high power sandwich type voice coil. HF adopts high temperature treatment Ti diaphragm, voice coil with copper cladding aluminum wire and compression cavity designed with linear phase technology. The products have good sound field coverage through broad dispersion horn and the latest adjustable delay symmetric circuit was also used for improving reliability as well as sound quality. Voice coil with diameter 100mm and magnetic circuit with diameter 220mm were used for subwoofer to effectively prevent the occurrence of distortion.

FEATURE

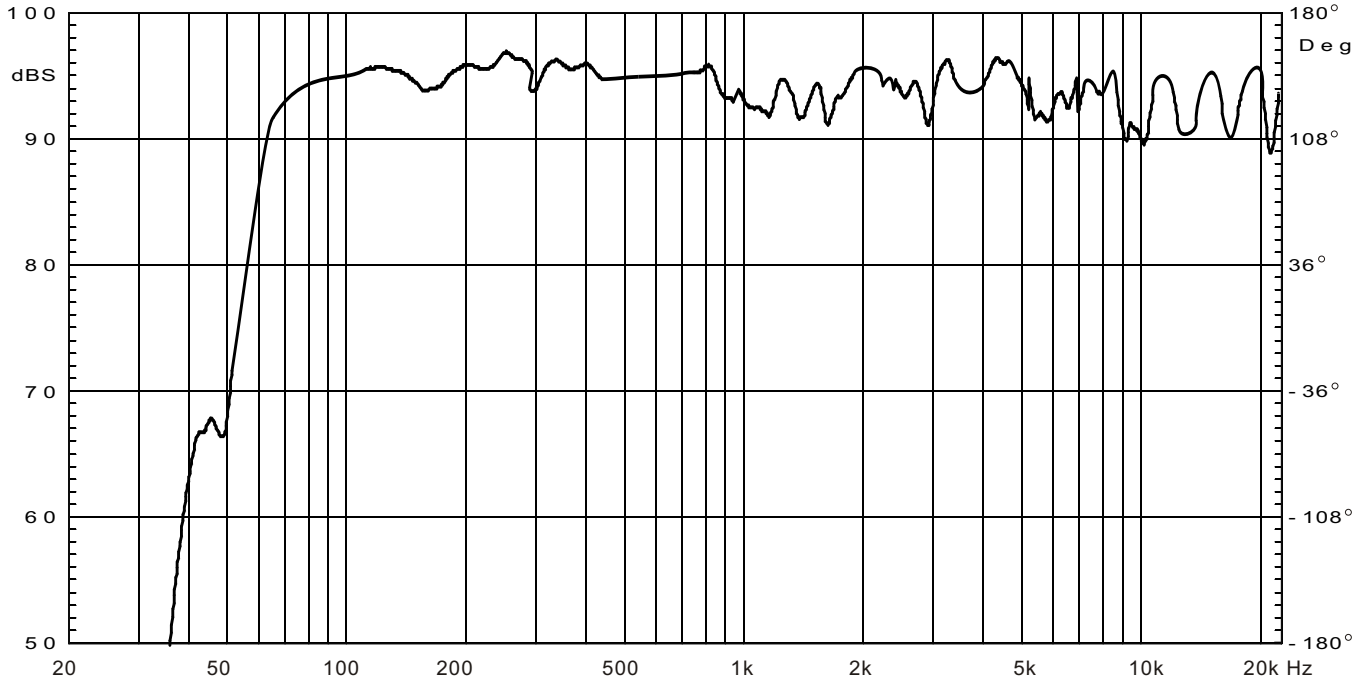
- ☐ Computer optimized analog design in order to get good response and phase feature
- ☐ Two way full range high sensitivity speaker
- ☐ One 12inch professional high effective woofer unit
- ☐ One compression driver with Dia 2 inch Titanium diaphragm
- ☐ 80° x 50° wide dispersion
- ☐ Mono amplifier promotes
- ☐ It is used for all kinds of rock-and roll bar, hall, club and all kinds of dynamic performance in entertainment for sound reinforcement
- ☐ It is used for high quality music repeating, and can match Beta 3 EJ218 high power subwoofer speaker

SPECIFICATION

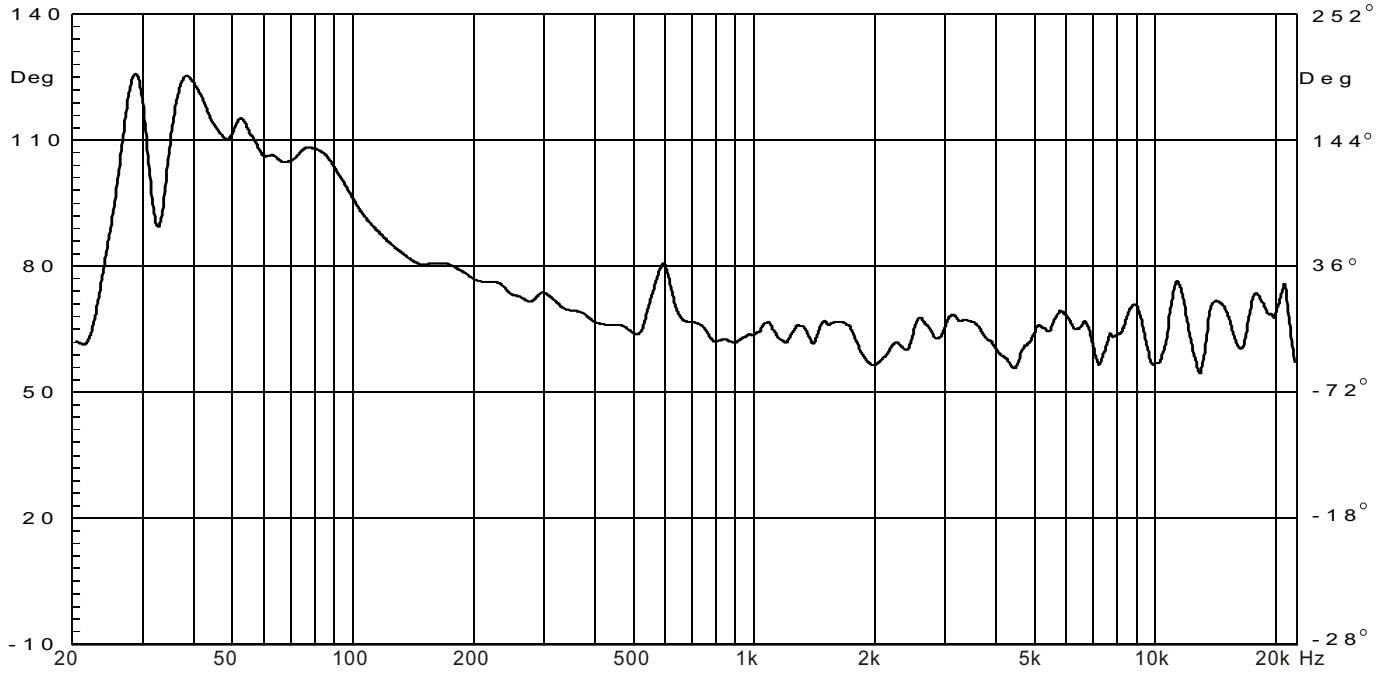
Transducer	LF：12"×1
	HF：ϕ44mm×1
Frequency response(-3dB)	50Hz-20kHz
Sensitivity(1m/1W)	96dB
Crossover Point	2.0kHz
Dispersion (H×V)	80°×50°
Rated Power (RMS)	250W
Rated Impedance	8Ω
DC impedance	5.9Ω
THD	<3%
Input Connectors	NL4×2，1+ 1-
Net Weight	23kg
Gross Weight	27kg
Dimension(W×D×H)	396×369×600mm
Packing Dimension(W×D×H)	505×480×720mm

ΣJ212

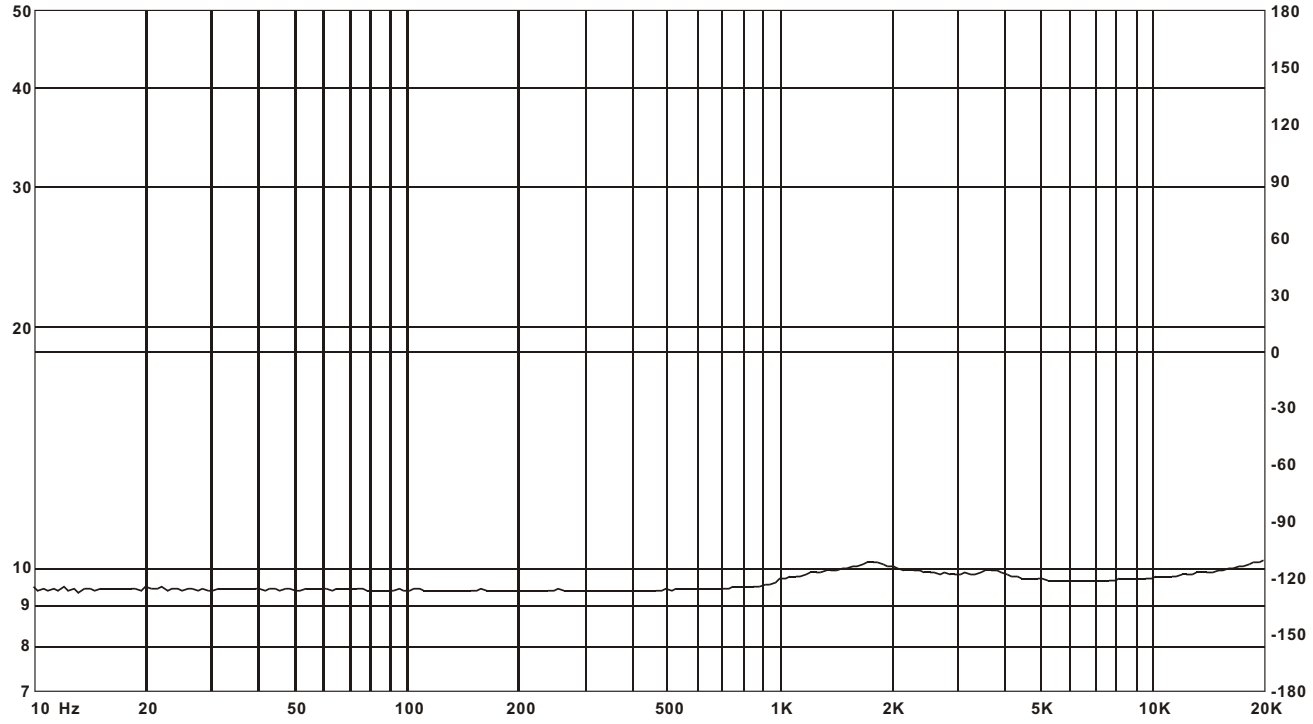
FREQUENCY RESPONSE



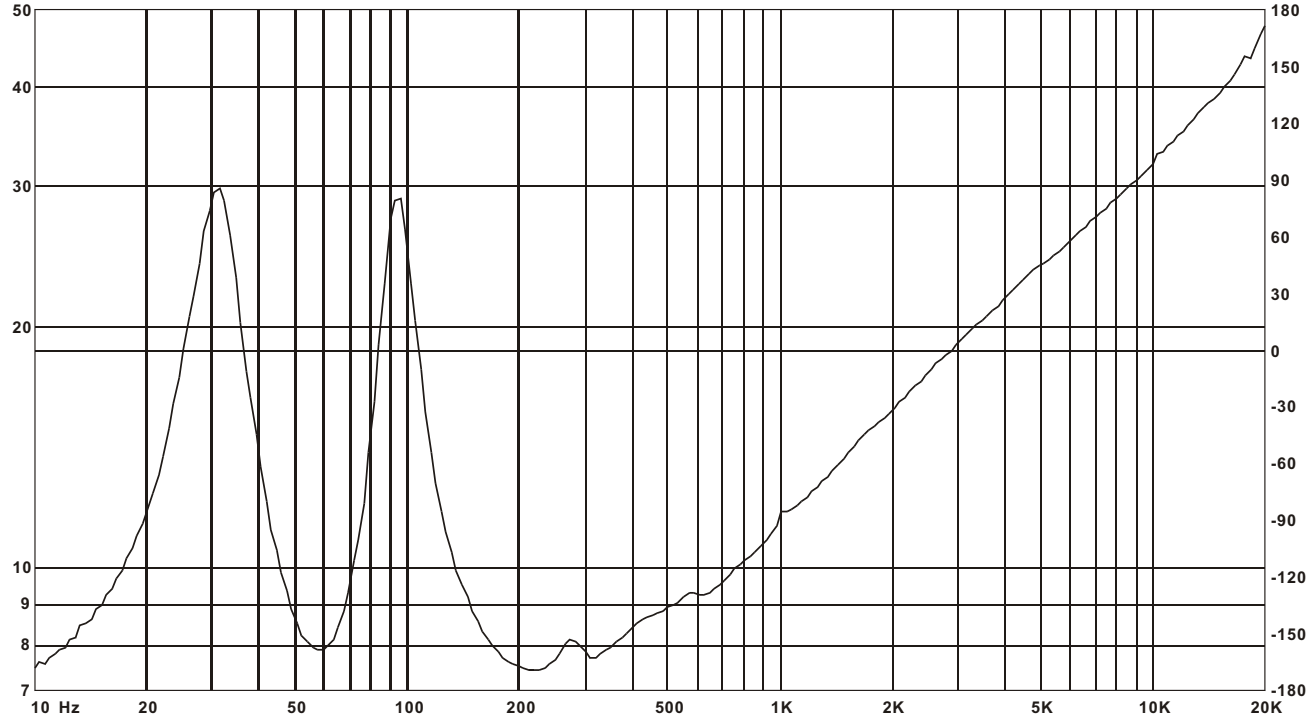
PHASE RESPONSE



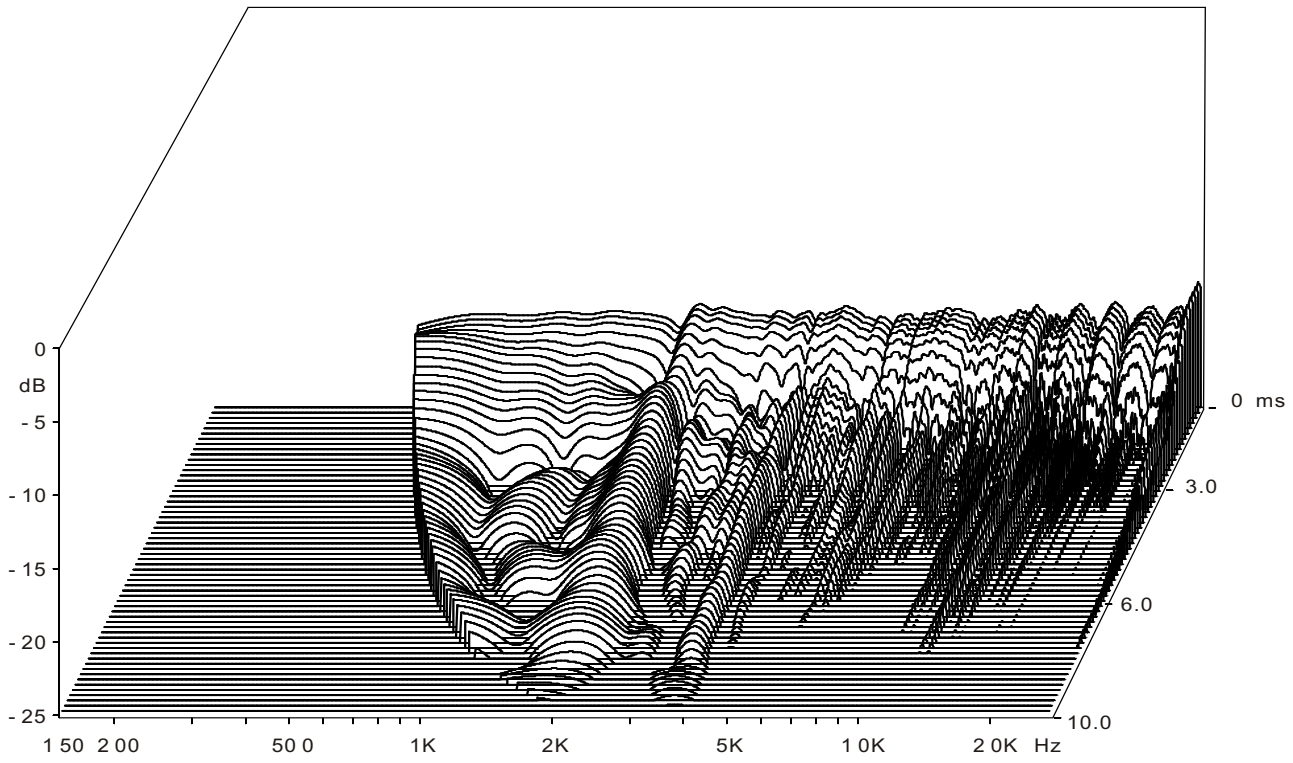
IMPEDANCE RESPONSE-HF



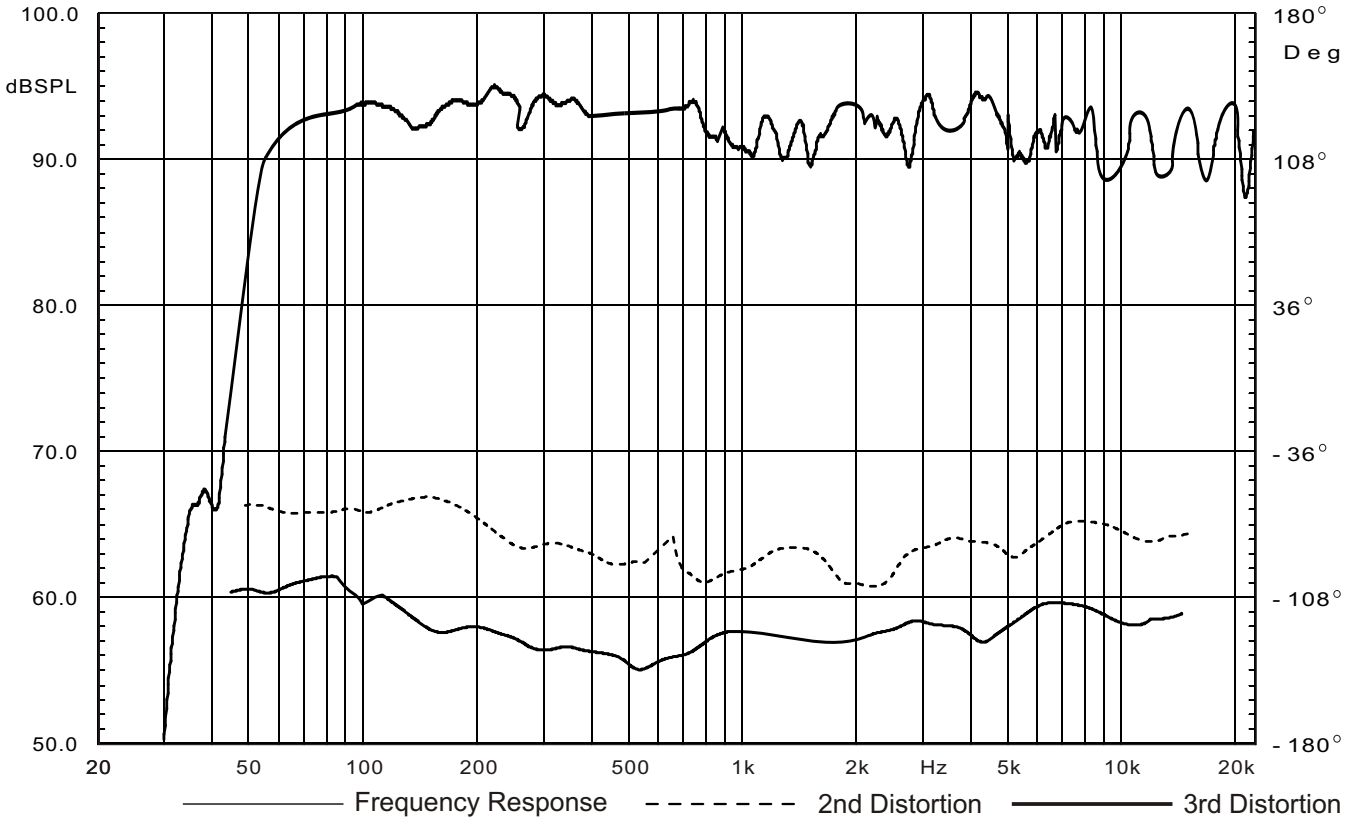
IMPEDANCE RESPONSE-LF



WATERFALL

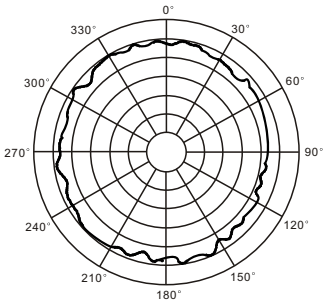


THD

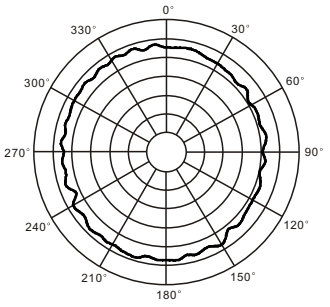


HORIZONTAL DIRECTIVITY

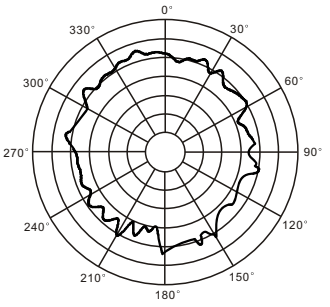
The data of Σ J212 horizontal directivity were collected by testing the speaker system in a big anechoic chamber.



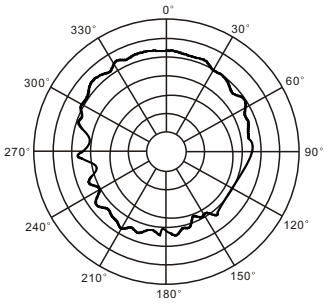
100Hz



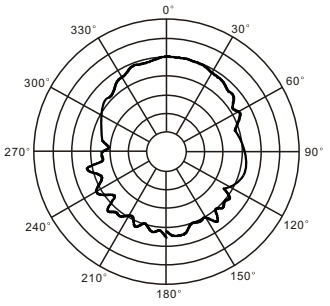
160Hz



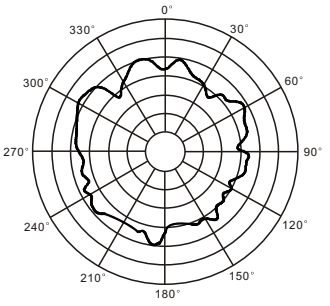
200Hz



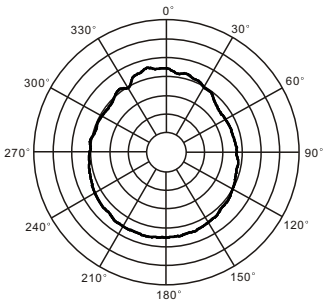
400Hz



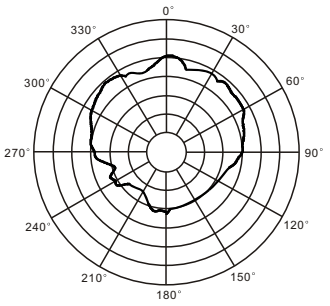
630Hz



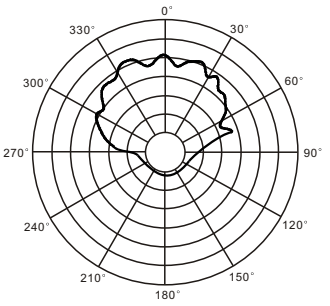
1.0kHz



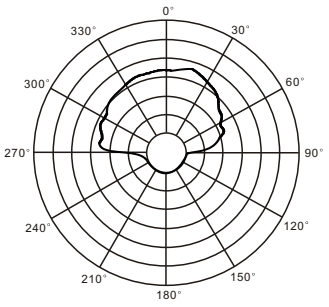
1.6kHz



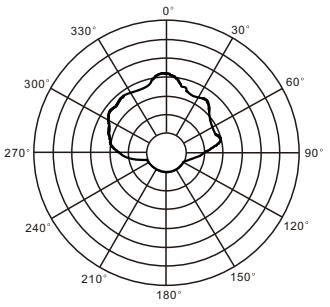
2.5kHz



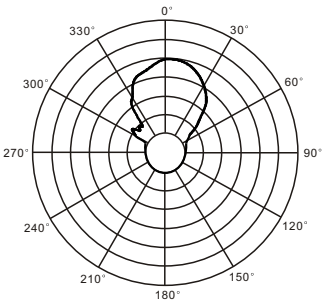
3.15kHz



6.3kHz



10kHz

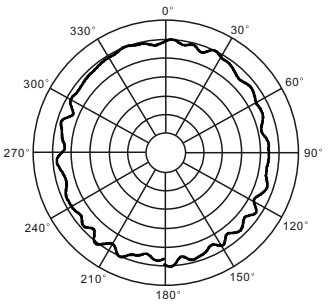


16kHz

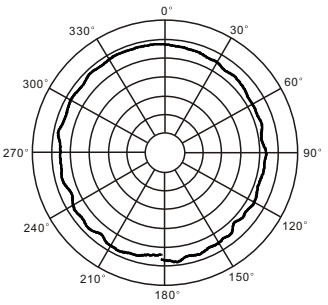
The scale is stepped by 6dB increment.

VERTICAL DIRECTIVITY

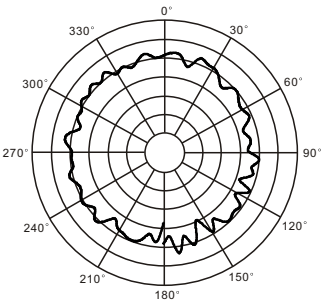
The data of Σ J212vertical directivity were collected by testing the speaker system in a big anechoic chamber.



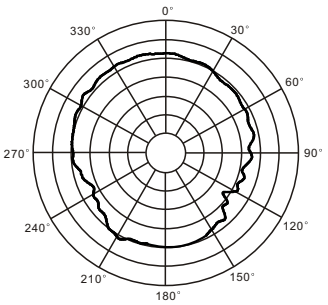
100Hz



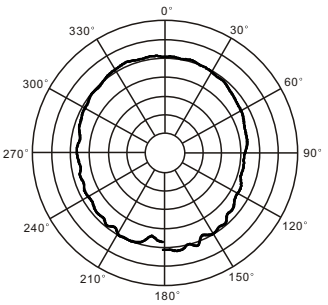
160Hz



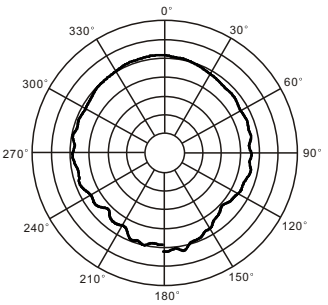
200Hz



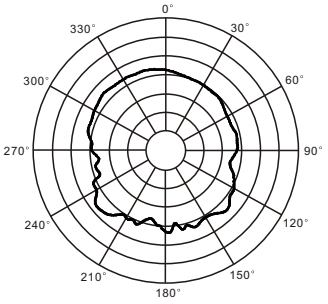
400Hz



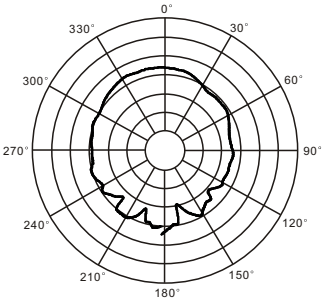
630Hz



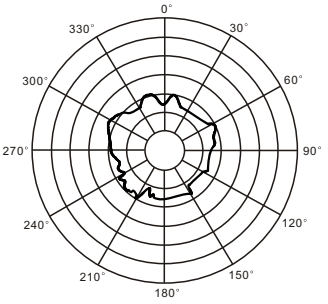
1.0kHz



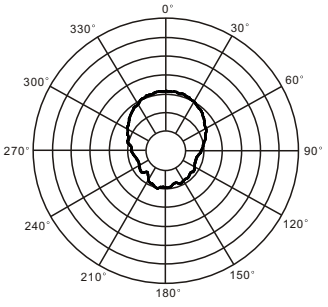
1.6kHz



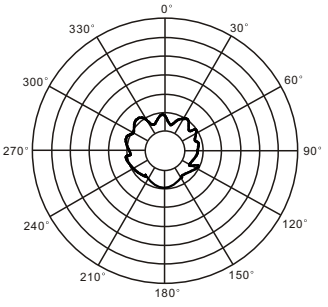
2.5kHz



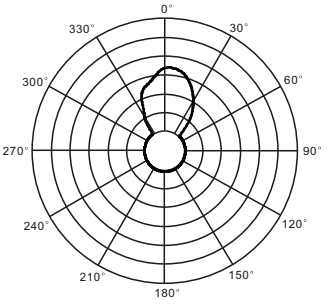
3.15kHz



6.3kHz



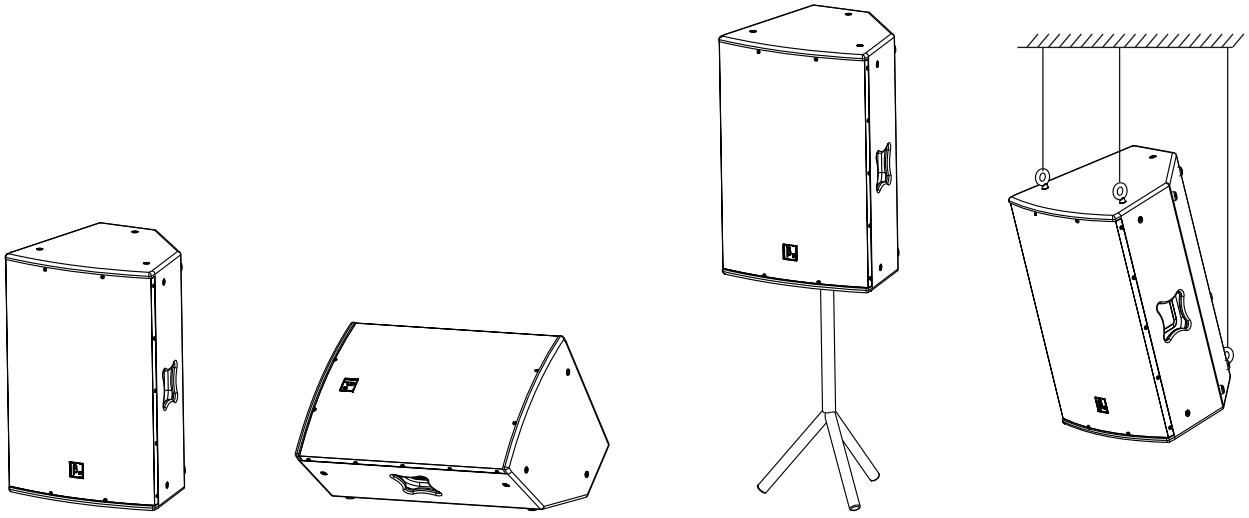
10kHz



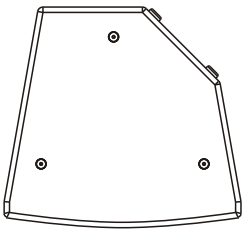
16kHz

The scale is stepped by 6dB increment.

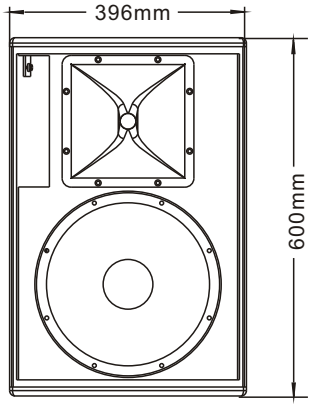
INSTALLATION



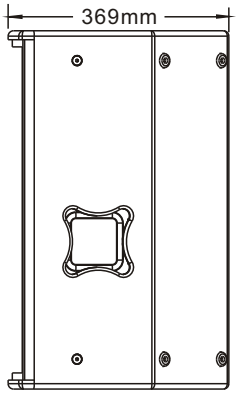
DIMENSIONS



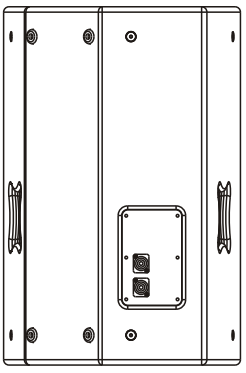
Planform



Front view



Side view



Back view

LIMITED WARRANTY

If malfunction occurs during the specified warranty period from the date of original purchase, the product will be repaired or replaced without charge by Elder Audio.

The Limited Warranty does not apply to:

(a)exterior finish or appearance;

(b)certain specific items described in the individual product data sheet or owner's manual;

(c)malfunction resulting from use or operation of the product other than as specified in the individual product data sheet or owner's manual;

(d)malfunction resulting from misuse or abuse of the product;

(e)malfunction occurring at any time after repairs have been made to the product by anyone other than Elder Audio Service or any of its authorized service representatives.

To obtain warranty service, customer must deliver proof of purchase of the product in the form of a bill of sale or receipt invoice.

Σ J212 Speakers and Speaker Systems are guaranteed against malfunction due to defects in materials or workmanship for a period of three (3) years from the date of original purchase. The Limited Warranty does not apply to burned voice coils or malfunctions such as cone and/or coil damage resulting from improperly designed enclosures. Additional details are included in the Limited Warranty statement.

Σ J212 Accessories are guaranteed against malfunction due to defects in materials or workman ship for a period of one (1) year from the date of original purchase. Additional details are included in the Limited Warranty statement.

Σ J212 Flying Hardware (including enclosure-mounted hardware and rigging accessories) is guaranteed against malfunction due to defects in materials or workmanship for a period of one (1) year from the date of original purchase. Additional details are included in the Limited Warranty statement.

Specifications are subject to change without notice.

ΣJ212